

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060986

Luminaire Tested: S124RDRP-H795D927-X4F0-XX-UDD-BVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1060986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-75)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDRP-H795D927-X4F0-XX-UDD-BVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH BLACK STRAIGHT BLADE
LOUVER WITH DIFFUSER
HIGH PERFORMANCE LIGHT ENGINE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

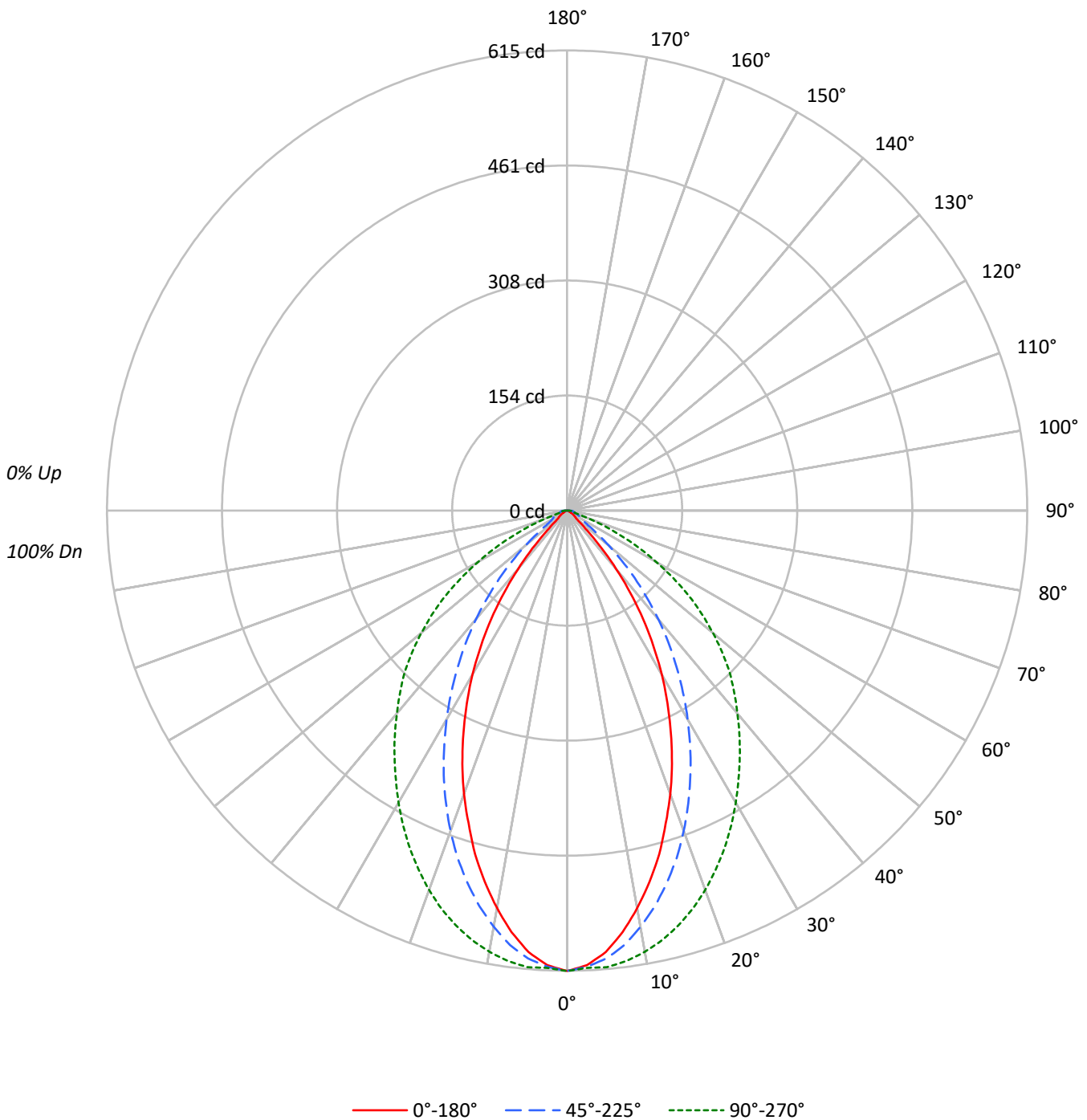
Lumens per Lamp: N/A
Luminaire Lumens: 775.4 lumens
Efficiency: N/A
Efficacy: 33.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 1.11 / 0.96
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5298	5298	5298
5°	5119	5193	5294
10°	4717	4938	5235
15°	4236	4590	5118
20°	3693	4176	4944
25°	3115	3706	4728
30°	2514	3203	4480
35°	1860	2680	4228
40°	1152	2135	3978
45°	458	1556	3746
50°	204	977	3405
55°	162	509	2982
60°	112	386	2375
65°	73	383	1634
70°	73	345	763
75°	96	336	336
80°	144	392	392
85°	287	781	573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 3746 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	7.3
10°-20°	145.7	18.8
20°-30°	183.9	23.7
30°-40°	168.7	21.8
40°-50°	114.9	14.8
50°-60°	62.6	8.1
60°-70°	27.1	3.5
70°-80°	9.9	1.3
80°-90°	6.3	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	386.0	49.8
0°-40°	554.7	71.5
0°-60°	732.1	94.4
0°-90°	775.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	775.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	592	600	601	607	612	55
15°	475	492	515	552	574	132
25°	328	351	390	452	498	150
35°	177	203	255	336	402	109
45°	38	63	128	227	308	35
55°	11	12	34	125	199	10
65°	4	5	19	39	80	4
75°	3	9	10	10	10	3
85°	3	6	8	8	6	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.3	615.3	615.3	615.3	615.3
2.5°	608.1	615.3	610.2	611.7	611.7
5°	592.2	600.1	600.8	607.3	612.4
7.5°	568.3	579.9	585.7	598.7	607.3
10°	539.5	553.2	564.7	587.1	598.7
12.5°	508.4	524.3	541.6	571.2	587.8
15°	475.2	491.8	514.9	551.7	574.1
17.5°	438.3	458.6	486.7	530.8	558.2
20°	403.0	423.2	455.7	505.5	539.5
22.5°	366.1	387.1	423.2	478.8	519.2
25°	327.9	351.0	390.0	452.1	497.6
27.5°	290.3	314.9	356.0	423.9	474.5
30°	252.8	277.3	322.1	395.0	450.6
32.5°	214.5	239.8	288.1	364.7	426.1
35°	176.9	202.9	254.9	335.8	402.2
37.5°	138.7	166.1	221.7	307.6	378.4
40°	102.5	130.0	189.9	279.5	353.9
42.5°	68.6	96.0	157.4	252.0	330.7
45°	37.6	62.8	127.8	226.8	307.6
47.5°	20.2	34.7	98.9	202.2	281.6
50°	15.2	18.8	72.9	176.2	254.2
52.5°	13.0	14.4	50.6	148.8	226.8
55°	10.8	11.6	33.9	124.9	198.6
57.5°	8.7	9.4	25.3	101.1	168.3
60°	6.5	7.9	22.4	78.0	137.9
62.5°	5.1	6.5	20.9	57.1	109.0
65°	3.6	5.1	18.8	39.0	80.2
67.5°	3.6	5.8	15.9	25.3	54.2
70°	2.9	7.9	13.7	16.6	30.3
72.5°	2.9	8.7	11.6	11.6	11.6
75°	2.9	9.4	10.1	10.1	10.1
77.5°	2.9	8.7	9.4	8.7	8.7
80°	2.9	7.9	7.9	7.9	7.9
82.5°	2.9	7.2	7.9	7.9	6.5
85°	2.9	6.5	7.9	7.9	5.8
87.5°	2.2	6.5	7.2	7.2	4.3
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	0.00	0.00	0.00	0.00	0.00	14.20	15.48	14.57	15.79	16.11
	3H	0.00	0.00	0.00	0.00	0.09	14.58	15.71	14.96	16.04	16.40
	4H	0.00	0.54	0.00	0.89	1.27	14.56	15.61	14.96	15.96	16.34
	6H	0.67	1.64	1.09	2.01	2.40	14.54	15.51	14.96	15.88	16.28
	8H	1.26	2.17	1.69	2.57	2.97	14.54	15.46	14.98	15.85	16.26
	12H	1.93	2.81	2.37	3.19	3.62	14.56	15.43	14.99	15.81	16.24
4H	2H	0.45	1.51	0.86	1.86	2.24	14.01	15.07	14.42	15.42	15.80
	3H	2.03	2.89	2.45	3.30	3.70	14.43	15.29	14.85	15.70	16.10
	4H	3.33	4.10	3.77	4.52	4.96	14.43	15.20	14.87	15.62	16.06
	6H	4.46	5.12	4.92	5.57	6.03	14.47	15.13	14.94	15.58	16.05
	8H	4.97	5.58	5.44	6.03	6.50	14.50	15.12	14.97	15.56	16.04
	12H	5.52	6.06	6.00	6.55	7.02	14.56	15.11	15.05	15.59	16.07
8H	4H	4.42	5.03	4.89	5.48	5.95	14.34	14.96	14.81	15.41	15.88
	6H	5.95	6.46	6.45	6.95	7.43	14.42	14.92	14.92	15.42	15.90
	8H	6.76	7.21	7.28	7.73	8.22	14.50	14.96	15.02	15.47	15.96
	12H	7.59	7.99	8.11	8.49	9.06	14.67	15.07	15.19	15.57	16.14
12H	4H	4.60	5.15	5.09	5.63	6.11	14.30	14.85	14.79	15.33	15.81
	6H	6.30	6.76	6.83	7.27	7.77	14.39	14.85	14.92	15.36	15.86
	8H	7.31	7.71	7.83	8.21	8.78	14.53	14.93	15.04	15.42	16.00